## \*115503\*

Page 1

April-02-14 11:	13:53 AM				7. 7. 7. 1.							C
Item ID: Revision ID: Item Name:	D3391-023 Mid Tube Ass	sembly	•	Accept	*N900	040	1100	)* ַ	Setup	Start Stop	*N:	S1*
Start Date: Required Date: Reference:	4/02/14	Start Qty: 1.00 Req'd Qty: 1.00		•	Cust Item I Customer:	<b>(D:</b>					I M.	
Approvals:	Process Pla	an: MLJ	Date: \\-04-(	OZ Tooling: SPC (Y/N):		ate:		· . ]	Run	Start Stop	*N	R1*
Sequence ID/ Work Center II		Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Rej Qty		Reject Number	Insp. Stamp
Draw Nbr	Rev	rision Nbr			•		***		-			
D3391	I				•			•				
100 ** <b>*1 \\\^*</b> Skidtubes		Skidtubes <b>Memo</b>	•	0.00			٠.	=		,		# 1
Skidtubes			oe to finish length as per Dy	wg D3391	<u> </u>							į.
•	* ,	saddle ho 3-Open s: "J"	ole on one side only as per I	00.375" exept for fwd saddl	/	)				e		
			e indexing ridge on Fwd &	Aft end of skidtube as per	Dwg D3391		BEI	4.06	-25	ó		
<b>.</b> €.		paint mar	rker,	ate Jig DT8217 Identify Ø0.							. '	
		(10 holes)	) as per Dwg D3391	23 assembly detail section ( 23 assembly detail section I						٠	·	
		(20 holes	) as per Dwg D3391 ·	WEARPLATE HOLES***	1-n to \$00.29/"	· 	)					

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391-023		· · · · · · · · · · · · · · · · · · ·	*115503*								Page	
			Accept	*N900	040	10	ገ*	Setup	Start	*N	S1*	
Tube Assen	nbly								Stop	*N	S2*	
	Start Qty: 1.00 Req'd Qty: 1.00	*1* *1*		Cust Item l	ID:							
rocess Plan:		Date:	Tooling:	Date:		_	. 1	Run		*N	R1*	
C:		Date:	SPC (Y/N):	Ds	ate:				Stop	*N	R2*	
	Description		Set Up/ Run Hours	Tool ID		Code	Accept Qty			•	Insp. Stamp	
	12- Transfer remaining fw dia hole, usin transfer drilled D3391-021 E  13- Using DT wearplate hole  14- Locating wearplte hole  15- Open 10  16- insert D3	drill one fwd saddle holed saddle holes using DT g t-pins and clicos to end pilot holes in D3391-028ATCH: 15500000000000000000000000000000000000	e only to .188" dia, transfer de 8149 locating from previusls sure perfect allingment, open 23/-021 to 0.438" dia. in D33 be previusly drilled holes, drill holes in D3391-023 drill ren T8937 drill to 0.297" dia.	y drill .188" up previusly 191-021 remaining				\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	B	- //		
2, 5,	/14 /14 ocess Plan	Operation Description  10-Open .375  11-Locate D3  12- Transfer remaining fw dia hole, using transfer driller D3391-021 E  13- Using D7 wearplate hole  14- Locating wearplte hole  15- Open 10  16- insert D3  17- insert T-p  18- ON FIRS	A Start Qty: 1.00	A Start Qty: 1.00	Cust Item //14 Req'd Qty: 1.00 * 1 * 1 * * * * * * * * * * * * * * *	Cust Item ID: /14 Req'd Qty: 1.00 *1* *1* Customer:  Date: Tooling: Date:  Date: SPC (Y/N): Date:  Operation Set Up/ Tool ID Tool #  Description Run Hours  10-Open .375" holes to .438" ***do not open fwd saddle holes***  11-Locate D3391-021 in D3391-023 at 9.00" (see view z-z)  12- Transfer drill one fwd saddle hole only to .188" dia, transfer drill all remaining fwd saddle holes using DT 8149 locating from previusly drill .188" dia hole, using 1-pins and clicos to ensure perfect allingment, open up previusly tranfer drilled pilot holes in D3391-023/-021 to 0.438" dia. in D3391-021  D3391-021 BATCH: 115500  13- Using DT8217, locating from two previusly drilled holes, drill remaining wearplate holes in D3391-021.  14- Locating from two fwd wearplate holes in D3391-023 drill remaining 6 wearplte holes in D3391-021 using DT8937  15- Open 10 wearplate holes in D3391-021 to 0.297" dia.  16- insert D3391-021 into D3391-23  17- insert T-pins into first and third fwd saddle holes	Start Qty: 1.00	Cust Item ID:  Req'd Qty: 1.00	Cust Item ID:	Start Qty: 1.00	Start Qty: 1.00	

19- ON 2ND SIDE ONLY ream out 2nd and forth saddle hole to 0.499".

20-Deburr and blow out all chips from inside tube, scribe batch # in D3391-023 at aft end.

## \*115503\*

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April-02-14 11:13:54 AM Item ID: D3391-023 Accept \*N900040100\* Setup Start **Revision ID: Item Name:** Mid Tube Assembly \*1\* **Start Date:** 4/02/14 **Start Oty:** 1.00 **Cust Item ID:** Required Date: 4/16/14 Reg'd Oty: 1.00 \*1\* **Customer:** Reference: Start Run Process Plan: Date: \_\_\_\_\_ **Approvals:** Tooling: Date: Stop QC: Date: SPC (Y/N): Date: Sequence ID/ Operation Set Up/ Tool ID Tool # Plan Accept Reject Reject Insp. **Work Center ID** Description Qty Qty Stamp **Run Hours** Code Number DAS 110 QC5- Inspect part completeness to step on W/O 0.00 24 DAE \*110\* QC 0.00 Memo Quality Control 120 Chemical Conversion Coat per QSI005 4.1 0.00 \*120\* HandFinish 0.00 Memo Hand Finishing 130 QC7-Inspect Chemical Conversion Coat 0.00 14-8-12 \*130\* OC 0.00 Memo **Quality Control** 

Item ID: D3391-023  Revision ID: Item Name: Mid Tube Assembly  Start Date: 4/02/14 Start Qty: 1.00  Required Date: 4/16/14 Req'd Qty: 1.00  Reference:  Approvals: Process Plan: QC: Operation		~ INI S Cus	St Item ID:		Setup Start Stop	*N:	S1* S2*
Required Date: 4/16/14 Req'd Qty: 1.00  Reference:  Approvals: Process Plan: QC:	*1*  Date: Too	Cus	stomer:	R	tun Start		
QC:		oling:		R	tun Start	<b>471</b>	714
Sequence ID/ Operation	Date: SPC	C (Y/N):	Date: Date:	_ _	Stop		R1* R2*
Work Center ID  Description  140  *140  *140  Skidtubes  Memo  Skidtubes  1-Open float 2-C'sink float 3- Prepare tu 4-Bond web Adhere for 1 A/R Sikafles	0.0  bag holes as per dwg at bag holes as per dwg be for welding in place as per Dwg D3391 & QSI	Run Hours 00 00	ool ID Tool # Plan	_	Qty	Reject Number	Insp. Stamp

150

QC5- Inspect part completeness to step on W/O

0.00

\*150\* QC

Memo

0.00

Quality Control

	Work Order ID 115503  April-02-14 11:13:54 AM			*115503*							Page 5	5
Item ID: Revision ID:	D3391-023			Accept	*N900	<b>040</b>	100	<b>)*</b>		4	S1*	-
Item Name: Start Date: Required Date: Reference:	Mid Tube As 4/02/14 4/16/14	Start Qty: 1.00 Req'd Qty: 1.00	*1* *1*		Cust Item I Customer:	D:					S2*	1
Approvals:	Process Pla	an:	Date:	Tooling: SPC (Y/N):		nte:		F		top	R1* R2*	
Sequence ID/ Work Center II 160 *160*	)	Operation Description Skidtubes		Set Up/ Run Hours 0.00	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp	
Skidtubes Skidtubes		<b>Memo</b> 1-Weld cros 2-grind weld		0.00 3391 & QSI 004 <i>A/R</i> 4-8 -18	CM129285	BEIG	4-087.	<u>′3</u>		× 40 ?		
170 <b>*170*</b> QC  Quality Control		QC10- Inspect visual per  Memo	QSI004- ground welds	0.00 <b>DA</b> : 0.00 <b>16</b>	14/00/17							

DAS 16 9-89

0.00

0.00

QC5- Inspect part completeness to step on W/O

Memo

Quality Control

\*120\*

Quality Control

180

<b>Work Order ID 115503</b> April-02-14 11:13:54 AM			*115503*								-	Page 6
Item ID: Revision ID: Item Name:	D3391-023 Mid Tube Ass	embly		Accept	*N900	<b>04</b> 0	100	)*	Setup	Start Stop		S1* S2*
Start Date: Required Date: Reference:	4/02/14 : 4/16/14	Start Qty: 1.00 Req'd Qty: 1.00	*1* *1*		Cust Item I Customer:	D:					I W	. 12
Approvals:	Process Pla	n:	Date:	Tooling: SPC (Y/N):		nte:		;		Start Stop	*N	R1* R2*
Sequence ID/ Work Center I	D	Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reje Qty		Reject Number	Insp. Stamp
185 <b>*1 Q.5.*</b> HandFinish Hand Finishing		Pressure Wash per QSI00  Memo  AND REAL	05 4.3 ODINE AS PER PAR09	0.00 0.00 2-043		·			7	An i	ypG-9	<i></i>
190 <b>*100*</b> Powdercoat Powder Coating		Memo START TIM	7845 <i>9</i> e: <i>['45</i> perature: <i>33</i>	0.00				1	<b>Б_</b> _	K1-	<u>9-9.</u>	<b>38</b> 8

200

QC3- Inspect Part Finish

0.00

\*200\*

Memo

0.00

Quality Control

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Work Ord April-02-14 11.		5503				Page 7					
Item ID: Revision ID: Item Name:	D3391-023  Mid Tube Ass	sembly		Accept	*N900	0040	110	<b>N</b> *	Setup S	i V	IS1* IS2*
Start Date: Required Date: Reference:	4/02/14 4/16/14	Start Qty: 1.00 Req'd Qty: 1.00	*1* *1*		Cust Item Customer:					7n	
Approvals:	Process Pla	ın:	Date:	Tooling:	D	ate:	_		,	Stårt *N	R1*
<del>-</del>	QC:		Date:	SPC (Y/N): Date:					S	Stop *N	R2*
Sequence ID/ Work Center II	D	Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Number	Insp. Stamp
*220* HandFinish Hand Finishing		HandFinishing  Memo	03591-1 spacers using DT	0.00 0.00 '9416 starting from 0.500" s	side			( (			K108/12
			erts as per Dwg	y 120 starting from 0.500 s	,,,,,,						
240 * <b>24</b> 0*		QC5- Inspect part compl	eteness to step on W/O	0.00				ſ			DAS 38 9-89
QC		Memo		0.00				7			

250

Identify as per dwg & Stock Location: w 6

0.00 D412-742-043 /3112146

\*250\*
Packaging

Quality Control

Memo

0.00

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Packaging

Work Ord April-02-14 11		5503		*11 <i>5</i>			Page 8		
Item ID: Revision ID: Item Name:	D3391-023  Mid Tube Ass	embly		Accept	*N9000401	100*	Setup	Start Stop	*NS1* *NS2*
Start Date: Required Date: Reference:	4/02/14 4/16/14	Start Qty: 1.00 Req'd Qty: 1.00	*1* *1*		Cust Item ID: Customer:				
Approvals:	Process Pla	n;	Date:	Tooling: SPC (Y/N):	Date:	· .	Run	Start Stop	*NR1* *NR2*
Sequence ID/ Work Center II 260	D	Operation Description QC21- Final Inspection -	Work Order Release	Set Up/ Run Hours 0.00		Plan Accep Code Qty	t Rej Qty		Reject Insp. Number Stamp
*260* QC Quality Control		Memo		0.00		-		14 [	9/17 /X) Mr g

**Picklist Print** 

April-02-14 11:13:57 AM

Work Order ID: 115503

\*115503\*

**Parent Item:** 

D3391-023

\*D3391-023\*

Parent Item Name: Mid Tube Assembly

**Start Date:** 4/02/14

Required Date: 4/16/14

Page 1

Start Qty: 1.00

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Required Qty: 1.00

**Comments:** 

IPP A05.10.20New Issue KJ/EC

IPP B06.02.10ECN773 dwg rev.D EC IPP C 07.03.20 rev F dwg EC IPP D 07.03.28 re-format EC IPP E 07.10.31 ecn 1053P EC

IPP Rev:F ECN 1056 07-11-13 DD verified by: EC IPP Rev:G 08-09-08 new process (ecn 08-510) DD verified by:EC IPP Rev:H 08-09-10 revH as per dwg DD verified by:EC

IPP Rev: I 08-11-13 Removed steps per w/o, QC KJ verified by: ec

	Rev:J add in seq 14	40 expire date &b#	sikafle	ex DD 10.02.	.17 verified by:	EC							
Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D2500-1-100		Manufactured	No			100	Each	83.0000	1	1			<del></del>
*D2500-1	-100*								**			BE14	1-06-24
	·			Location		Loc	<u>Oty</u>	Loc Code					
				HALL			83				_		
					82373		22		_		**		
D3389-1		Manufactured	No	(	86065	140	61 Each	8.0000	1		_		
	L	Manufactureu	110	ļ		140	Lacii	8.0000	.11.	1			
*D3389-13	*								** 7		1.1	13	
WCD				Location		Loc (	<u>Qty</u>	Loc Code		Y	14 -		-12
				LG			8			7	_		
					113057		8		<u>'[</u> ]'		<del>-</del>		
D3681-1		Manufactured	No		114969	160	Each	234.0000	5	5			

\*D3681-1\*

Location	Loc Qty	Loc Code
LG	168	
114884	168	
LG001	66	
109109	66	

BF14-08-13

April-02-14 11:13:57 AM

Work Order ID: 115503

\*115503\* \*D3391-023\*

Parent Item:

D3391-023

Parent Item Name: Mid Tube Assembly

**Start Date:** 4/02/14

Required Date: 4/16/14

Start Qty: 1.00

Required Qty: 1.00

D3591-1

Manufactured

Each

88.0000

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\*D3591-1\*

Bushing

<b>Location</b>	Loc Qty	Loc Code		
FG	10	B11553	3 <u>VZ</u>	
92873	10	, 611333		
FP001	78	}		
100699	5	I		
107918	36	1		
109107	37	,		
	230 E	Each 9.937.000	20 20	

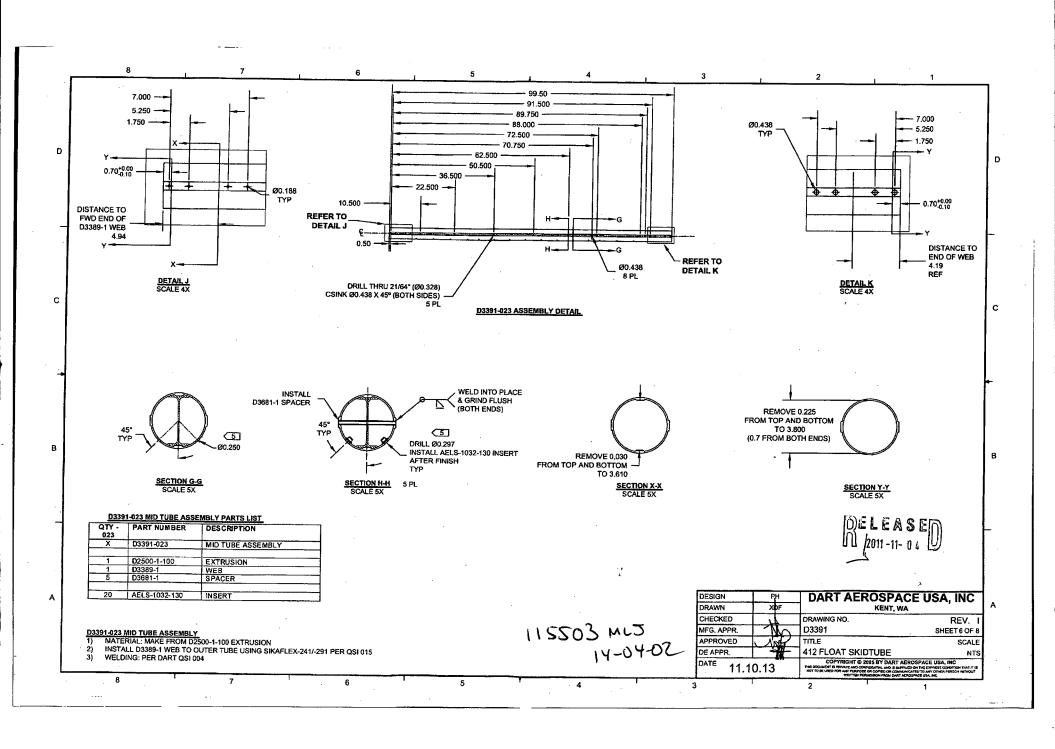
ALS4-1032-130

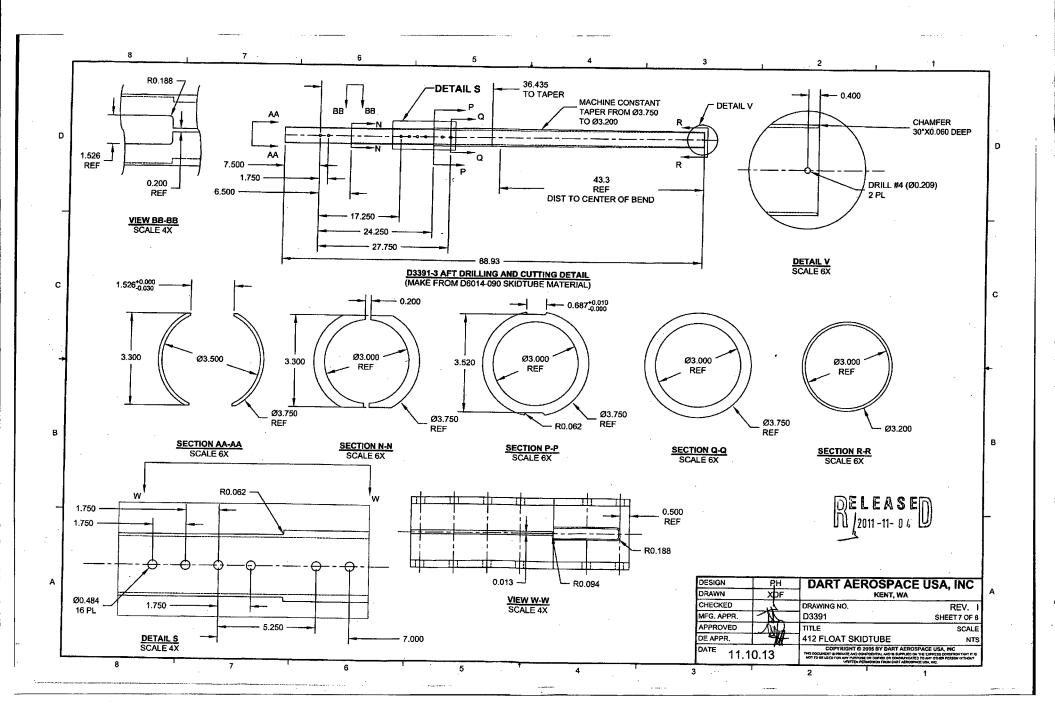
AELS4-1032-130 Purchased

\*AI S4-1032-130\*

Rivnut

Location	<u>n</u>	Loc Qty	Loc Code	
FP001		9832		
	M128649	9832		<u> </u>
ST279		48		
	M128211	48		
st510		57		
	M126109	57		





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